University of Cambridge
VISIONHACK TEAM

SMITH Michael James Henry. I studied for my undergraduate and master's degrees at the University of Cambridge, where I read Natural Sciences, specialising in Materials Science. I was a member Dr. Sohini Kar-Narayan's research group for my final year research project, in which I investigated mesoporous structures of piezoelectric polymers for energy harvesting applications. Following this project, I joined Dr. Kar-Narayan's group as a PhD student, and I am currently in my second year of research. I study the structure, properties and applications of piezoelectric polymers, specifically in a biological context. This involves producing nanostructures of these polymers, characterising their performance with advanced Scanning Probe Microscopy techniques and ultimately implementing them into devices using additive manufacturing processes such as Aerosol Jet Printing.

OU Canlin is currently a first-year Ph.D. student at the Device Materials Group, Department of Materials Science, University of Cambridge. He is a college member of King's College, and is fully funded by a prestigious China Scholarship Council and Cambridge Trust Scholarship. Prior to taking up his Ph.D. research, he received his MPhil. Degree in Materials Science from University of Cambridge (2016), following his B.Eng. Degree (First Class with Honours) in Materials Science from University of Birmingham (2014) and Central South University in China (2012).

During his MPhil study, he has focused on «Template-assisted Hydrothermal Growth of Aligned Zinc Oxide Nanowires for Piezoelectric Energy Harvesting Applications». Then, his PhD research moves on to «Flexible Printed Thermoelectric Nanogenerators Based on Hybrid Materials». He has been working extensively on the development of a new class of flexible and robust hybrid organic-based nanocomposites for thermoelectric and piezoelectric energy harvesting applications, making them as clean, efficient and competitive energy technologies in the future. He has published 6 research papers (1 first-author and 5 co-author papers) and has attended four international academic conferences (2 poster and 2 oral presentations).

GRIFFIN Peter Hugh. I studied Electronic Engineering at Imperial College London from 2011 where I got particularly interested in semiconductor devices with a final project in which I simulated a finFET with nanoscale roughness. I then came to Cambridge as part of the integrated photonics and electronics system centre for doctoral training programme run jointly with UCL. I worked on two mini

projects during the first year of this course, one with Andrew Flewitt looking at copper nitride for photovoltaics and one with Rachel Oliver on cubic gallium nitride. I started my PhD with Rachel in October 2016 looking at porous gallium nitride.

CHOI Yeonsik received his Bachelor's degree (2009) and Master's degree (2011) from the Department of Materials Science and Engineering at Yonsei University in Seoul, Korea. Up to 2015, he worked at LG Chem. Ltd. R&D Center as a senior researcher for the development of the carbon nanotube based composite materials for electronic devices. He is currently a PhD student under Prof. Sohini Kar-Narayan at the University of Cambridge, UK. His Major research interest is the investigation of novel nanomaterials for application in triboelectric nanogenerators.

BUSOLO Tommaso is a first year NanoDTC PhD student at the University of Cambridge. He is part of the Kar-Narayan group and his research focus is on smart textiles for digital health applications. The project vision is to create clothes that can continuously monitor our health with no visible impact on our lifestyle. The PhD aims at investigating how to integrate nanogenerators (thermoelectric, piezoelectric and triboelectric materials) into fabrics for sensing and energy harvesting purposes. In his spare time Tommaso enjoys hiking, yoga and complaining about British food.